Volume 22 Number 1 1991

1 Restriction fragment length polymorphism of ovine casein genes: close linkage between the α_{S1}-, α_{S2}-, β- and κ-casein loci
H. Levéziel, L. Méténier, G. Guérin, P. Cullen, C. Provot, M. Bertaud & J. C. Mercier

11 Analysis of polymorphism in the bovine casein genes by use of the polymerase chain reaction
S. J. Pinder, B. N. Perry, C. J. Skidmore & D. Savva

21 DNA polymorphism at the casein loci in sheep
P. Di Gregorio, A. Rando, E. Pieragostini & P. Masina

31 Mixed lymphocyte culture studies reveal complexity in the bovine MHC not detected by class I serology
C. J. Davies & D. F. Antczak

45 Eye lens proteins as genetic markers in anguillids
A. Jamieson & A. S. Teixeira

53 Restriction fragment length polymorphism of the *caprine* β-globin gene cluster associated with the HB β-globin variants in Norwegian dairy goats
O. Bergersen & M. Braend

67 Haemoglobin phenotypes of the wild European mouflon sheep living on the island of Sardinia
S. Naitana, S. Ledda, E. Cocco, L. Manca & B. Masala

77 Differential expression of $^{I}\alpha$- and $^{II}\alpha$-globin genes in Norwegian dairy goats
O. Bergersen, V. M. Fosse & L. L. Nesse

Short Communications

87 Genetic polymorphism of adenosine deaminase and mannose phosphate isomerase in blood of arctic foxes, *Alopex lagopus*
V. Simonsen, B. Larsen & O. Lohi

91 Transferrin and haemoglobin polymorphism in domesticated goats in the USA
Shiquan Wang, W. C. Foote & T. D. Bunch

95 Society News

Volume 22 Number 2 1991

105 Genetic mapping by single sperm typing
N. Arnheim, H. Li & X. Cui

117 Synteny mapping of human chromosome 8 loci in cattle
D. W. Threadgill & J. E. Womack

123 Restriction fragment length polymorphisms in bovine major histocompatibility complex class II β-chain genes using bovine exon-containing hybridization probes
N. E. Muggli-Cockett & R. T. Stone

137 DNA fingerprinting in cattle using oligonucleotide probes
J. Buitkamp, H. Zischler, J. T. Epplen & H. Geldermann

147 One-dimensional isoelectric focusing and immunoblotting of bovine major histocompatibility complex (BoLA) class I molecules and correlation with class I serology
B. Viuff, H. Østergård, B. Aasted & B. Kristensen

155 Mouse monoclonal antibodies to bovine blood group antigens: additional results
L. Méténier, M. Nocart & M. T. Alaux

165 Sheep gene mapping: additional DNA markers included (CASB, CASK, LALBA, IGF-1 and AMH)
M. Imam Ghali, N. Saidi-Mehtar & G. Guérin

Short Communications

173 Two new common alleles of erythrocyte adenosine deaminase (*ADA*) in pigs
S. Čepica, I. Brchaňová, J. Hradecký & J. Hojný

177 Repeat sequences from complex ds DNA viruses can be used as minisatellite probes for DNA fingerprinting
A. M. Crawford, F. C. Buchanan, K. M. Fraser, A. J. Robinson & D. F. Hill

183 Mm, a new factor in the porcine M blood group system
P. Bräuner Nielsen

187 Inheritance of the equine Tf F3 allele
E. G. Cothran, P. J. Henney & J. A. King

Molecular Genetic Markers

191 Ovine dinucleotide repeat polymorphism at the MAF23 locus
P. A. Swarbrick, F. C. Buchanan & A. M. Crawford

192 Detection of insertion polymorphisms in 5′ flank and second intron of the porcine growth hormone gene
B. W. Kirkpatrick & B. M. Huff

194 Restriction fragment length polymorphisms at the porcine t complex polypeptide 1 (*TCP1*) locus
Yun-Chao Shia, J. E. Beever, H. A. Lewin & L. B. Schook

195 A *Taq*I polymorphism at the ovine α-Inhibin locus
J. A. Sise, H. M. Tou & G. W. Montgomery

196 A *Msp*I restriction fragment length polymorphism at the ovine locus for 2′, 3′-cyclic-nucleotide 3′-phosphoydrolase
J. M. Penty, H. M. Tou & D. F. Hill

197 A *Msp*I restriction fragment length polymorphism at the ovine locus for neurotensin
J. M. Penty, H. M. Tou & D. F. Hill

198 Restriction fragment length polymorphisms at the ovine locus for the α-subunit of pituitary glycoprotein hormones
J. M. Penty, J. A. Sise & G. W. Montgomery

Volume 22 Number 3 1991

199 Cloning and sequence analysis of 14 DRB alleles of the bovine major histocompatibility complex by using the polymerase chain reaction
S. Sigurdardóttir, C. Borsch, K. Gustafsson & L. Andersson

211 Class II major histocompatibility complex genes of the sheep
E. V. Deverson, H. Wright, S. Watson, K. Ballingall, N. Huskisson, A. G. Diamond & J. C. Howard

227 Expansion of the canine A blood group system
M. Symons & K. Bell

237 Localization of the β-subunit of follicle stimulating hormone in cattle and sheep by *in situ* hybridization
R. Hediger, S. E. Johnson & D. J. S. Hetzel

245 Anti-leucocyte antibodies and embryonic mortality in embryo transferred cows
J. Matoušek & J. Říha

251 New blood group factors Es, Et and a new allele E^{bdgjmt} (E^{16}) in the pig E blood group system
J. Hojný, J. Hradecký, S. Cwik & D. O. Schmid

259 Use of DNA fingerprints for the detection of major genes for quantitative traits in domestic species
C. S. Haley

Short Communications

279 Chicken major histocompatibility complex congenic lines differ in the percentages of lymphocytes bearing CD4 and CD8 antigens
K. Hála, O. Vainio, J. Plachý & G. Böck

285 DNA fingerprints of sheep using an M13 probe
M. H. Gatei, P. M. Chen, R. C. W. Daniel & M. F. Lavin

291 Restriction fragment length polymorphisms at the growth hormone gene in pigs
V. H. Nielsen & N. J. Larsen

295 Cosegregation of two allotypes G9 and G16 with the α-protease inhibitor variants in pigs
J. Kurył, A. Janik, A. Nogaj & T. Wròblewski

299 DNA fingerprints of farm animals generated by microsatellite and minisatellite DNA probes
A. Haberfeld, A. Cahaner, O. Yoffe, Y. Plotsky & J. Hillel

Molecular Genetic Markers

307 Southern blot analyses of the *MET* locus in horses and cattle
T. L. Lear & E. Bailey

308 Book Review

309 Society News

Volume 22 Number 4 1991

311 Marked genetic polymorphism of the swine steroid 21-hydroxylase gene, and its location between the SLA class I and class II regions
C. Geffrotin, C. Renard, P. Chardon & M. Vaiman

323 Biochemical identification of B-F and B-G allelic variants of the chicken major histocompatibility complex
B. G. Hepkema, A. van der Poel, M. C. Grosfeld-Stulemeyer & E. J. Hensen

333 Genotyping of bovine κ-casein (κ-CN^A, κ-CN^B, κ-CN^C, κ-CN^E) following DNA sequence amplification and direct sequencing of κ-CN^E PCR product
S. Schlieben, G. Erhardt & B. Senft

343 Nucleotide sequence and Northern analysis of a bovine major histocompatibility class II DRβ-like cDNA
M. G. Burke, R. T. Stone & N. E. Muggli-Cockett

Short Communications

353 Absence of genetic linkage between *A1BG*, *PGD* and *HPX* loci in rabbits
A. Stratil, E. Gábrišová, D. Čížová & P. Bobák

357 PGD variants in several wild pig populations of East Asia
Y. Kurosawa & K. Tanaka

361 Expansion of the D system of horse red cell alloantigens
A. T. Bowling & M. J. Williams

Molecular Genetic Markers

369 Ovine dinucleotide repeat polymorphism at the MAF35 locus
P. A. Swarbrick, F. C. Buchanan & A. M. Crawford

371 Ovine dinucleotide repeat polymorphism at the MAF92 locus
A. M. Crawford, F. C. Buchanan & P. A. Swarbrick

373 Ovine dinucleotide repeat polymorphism at the MAF4 locus
F. C. Buchanan, P. A. Swarbrick & A. M. Crawford

375 Ovine dinucleotide repeat polymorphism at the MAF64 locus
P. A. Swarbrick, F. C. Buchanan & A. M. Crawford

377 Ovine dinucleotide repeat polymorphism at the MAF36 locus
P. A. Swarbrick, F. C. Buchanan & A. M. Crawford

379 Ovine dinucleotide repeat polymorphism at the MAF48 locus
F. C. Buchanan, P. A. Swarbrick & A. M. Crawford

Volume 22 Number 5 1991

381 Sequencing and genetic analysis of a bovine DQB cDNA clone
A. Xu, T. J. Clark, M. R. Teutsch, L. B. Schook & H. A. Lewin

399 Production of alloantibodies against bovine B-lymphocyte antigens
M. A. Arriens, F. Hesford, G. Ruff & S. Lazary

407 Production of alloantisera against class II bovine lymphocyte antigens (BoLA) by cross-immunization between class I matched cattle
J. L. Williams, R. A. Oliver, A. L. G. Morgan, E. J. Glass & R. L. Spooner

417 Production and characterization of alloantisera specific for bovine class II major histocompatibility complex antigens
C. J. Davies & D. F. Antczak

Molecular Genetic Markers

435 Dinucleotide repeat polymorphism at the bovine locus *FSHB*
S. J. Kemp & A. J. Teale

436 Association of *Msp*I restriction fragment length polymorphisms with transferrin in horses
E. Bailey, T. L. Lear & E. G. Cothran

437 A *Pst*I restriction fragment polymorphism at the ovine locus for follistatin
D. J. Tisdall & J. M. Penty

438 A *Pst*I restriction fragment length polymorphism at the ovine locus for poly-ubiquitin
J. M. Penty & G. W. Montgomery

439 A *Rsa*I restriction fragment length polymorphism at the ovine locus for gamma-interferon
J. M. Penty & D. F. Hill

440 A *Msp*I restriction fragment length polymorphism at the ovine locus for glucagon
J. M. Penty & G. W. Montgomery

441 *Bam*HI reveals a polymorphism in cattle when probing with human protein kinase C alpha (PRKCA)
W. Barendse & D. J. S. Hetzel

442 *Rsa*I reveals a polymorphism at the bovine thyrotropin beta (*TSHB*) locus
W. Barendse, S. M. Armitage & D. J. S. Hetzel

443 *Taq*I reveals a polymorphism in cattle when probing with the rat fatty acid binding protein (I-FABP)
W. Barendse, S. M. Armitage & D. J. S. Hetzel

444 Human apolipoprotein B (APOB) detects a polymorphism with *Rsa*I in cattle
W. Barendse, S. M. Armitage & D. J. S. Hetzel

445 *Taq*I reveals a polymorphism in cattle when probed with the murine homeobox 2 gene (HOX2)
W. Barendse, S. M. Armitage & D. J. S. Hetzel

446 A *Taq*I restriction fragment length polymorphism at the porcine platelet-derived growth factor β-receptor locus (PDGFRB)
P. Mariani, M. Johansson, H. Ellegren & L. Andersson

447 *Taq*I and *Pvu*II restriction fragment length polymorphisms at the porcine plasminogen activator, urokinase, locus (PLAU)
P. Mariani, M. Johansson, H. Ellegren & L. Andersson

448 *Pvu*II polymorphisms at the porcine oestrogen receptor locus (*ESR*)
M. F. Rothschild, R. G. Larson, C. Jacobson & P. Pearson

Volume 22 Number 6 1991

449 Erythrocyte alloantigen loci *Ea-D* and *Ea-I* map to chromosome 1 in the chicken
J. J. Bitgood, R. L. Kendall, R. W. Briles & W. E. Briles

455 Involvement of major histocompatibility complex class I compatibility between dam and calf in the aetiology of bovine retained placenta
I. Joosten, M. F. Sanders & E. J. Hensen

465 Organization and polymorphism of bovine major histocompatibility complex class II genes as revealed by genomic hybridizations with bovine probes
S. Sigurdardóttir, P. Mariani, M. A. M. Groenen, J. van der Poel & L. Andersson

Report

477 Joint Report of the Fourth International Bovine Lymphocyte Antigen (BoLA) Workshop, East Lansing, Michigan, USA, 25 August 1990
D. Bernoco, H. A. Lewin, L. Andersson, M. A. Arriens, G. Byrns, S. Cwik, C. J. Davies, H. C. Hines, W. Leibold, Ø. Lie, D. Meggiolaro, R. A. Oliver, H. Østergård, R. L. Spooner, J. A. Stewart-Haynes, A. J. Teale, J. W. Templeton & M. Zanotti

Short Communication

497 Restriction fragment length polymorphism of a bovine T-cell receptor β gene
A. Lundén, S. Sigurdardóttir & L. Andersson

503 Author and subject indexes to Volume 22